

### Specifications:

Gene:	hCB1R
Accession:	NP_057167
Insert size:	1431bp
Concentration:	10µg at 0.2µg/µL

### Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

### Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

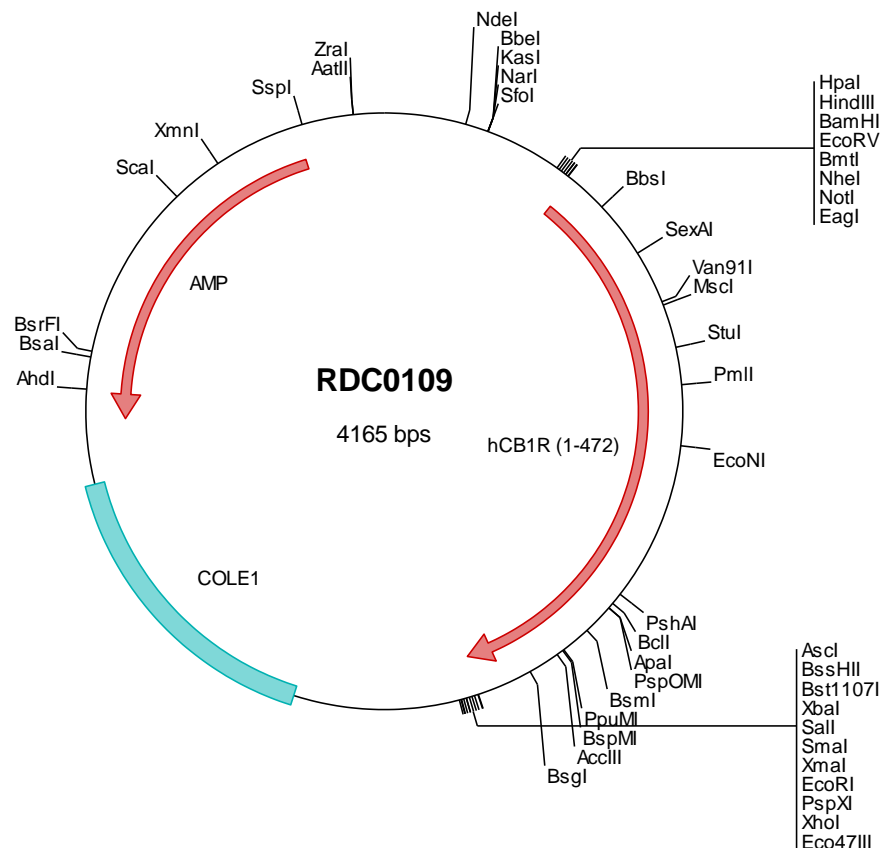
## hCB1R cDNA Plasmid

### CNR1 cannabinoid receptor 1 (brain) [ *Homo sapiens* ]

**Also known as:** CB1; CNR; CB-R; CB1A; CB1R; CANN6; CB1K5

#### Summary:

Cannabinoid R1 (CB1R) is a 60 kDa 7TM protein that belongs to the family of G protein-coupled receptors, class A. The classical cannabinoid agonist HU210, a structural analog of (-)-Δ(9)-tetrahydrocannabinol, binds to brain cannabinoid receptors and activates signal transduction pathways. CB1R is expressed in the central nervous system and upper GI tract, in contrast to CB2R which is expressed by hematopoietic cells. CB1R mediates the behavioral and gut motility effects of cannabinoids. It has been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. Multiple transcript variants encoding two isoforms have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0109 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggta cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tetggggctg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acggcagggt ttcccgctc acgacgttg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tetgtagcgc gggcggcacc atgaagtoga tctatagatg ccttgcagat accaccttcc gaaccatcac
501 cactgacctc ctgtactgtg gtcocaaatga cttcagctac gaagacatca aaggtgacat ggcacocaaa ttagggtaact tcccacagaa attoccttta
601 acttccctta ggggaagtcc cttoacaagag aagatgactg cgggagacaa cccocagcta gtocagcag accaggtgaa cattacagaa tttacaaca
701 agtctctctc gtccttcaag gagaatgagg agaacatcca gtgtggggag aacttcatgg acatagatgt ttcataggtc ctgaaccoca gccagcagct
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1401 catcatccac acgctgagg atgggaaggt acaggtgacc cggccagacc aagcccgcac tttagccaaga ccttggctcc gatctgggtg
1501 gtgttgatca tctgctgggg cctctgctt gcaatcatgg tgtatgatgt ctttgggaag atgaacaagc toattaagac ggtgtttgca tctgtagta
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2201 tcgttccgct gccggcagcg gtatcagctc actcaaaggc ggtaatacgg ttatccacag aatcagggga taacgcagga aagaacatgt gagcaaaagg
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4001 aggttatgtg tctcatgac gatacatat ttgaaatgat ttagaaaaat aacaaaatag ggttcccg cactttccc cgaagagtc cacctgacgt
4101 ctaagaaacc attattatca gacattaac ctataaaaaat aggcgatca cgaggccctt cgtc

> RDC0109 Translated Insert Sequence

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101 nfmdiecfmv lnpsqqlaia vlsitlgtft vlenllvlcv ilhsrslr1r psyhfigsla vadllgsvif vysfidfhvf hrkdsrnvfl fklgvgtasf
201 tasvgs1flf1 aidryis1hr playkriv1r pkavvafclm wtiaiv1avl pllgnwcekl qsvcsd1fph idetylmfwi gvtsvlllfi vyaymyilwk
301 ahshavrm1q rgtqks1i1h tseidgkv1t rpdqarm1d1r laktl1vl1v vliicwpl1 aimvydvfgk mnk1ikt1va fcsmlcl1ns tvnpi1yalr
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